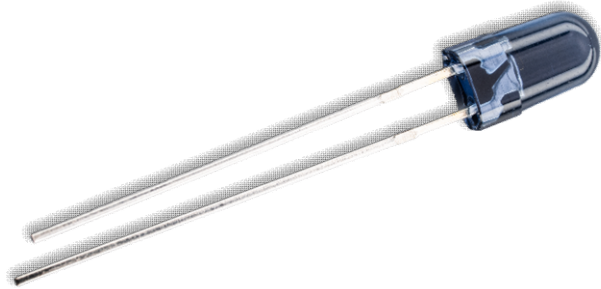


**Product Specification****CQR67666EBB****1440nm****SWIR LED**

creativeled.com

**Features**

- \* Verry Narrow Radiation of 6° full angle
- \* Based on High Power InP substrat
- \* Fast switching time : typ. < 25ns
- \* High power and efficiency
- \* Reflow-soldering
- \* RoHs and REACH conform

**Applications**

Water / Moisture detection  
Coating Inspection  
Medical Instruments  
Vision Systems

**\* Safety Note :**

**This product can be driven with high level risks for human eyes and body acc. IEC 825 and EN62471**

**Optical and Electrical Characteristics @Tambient =25°C**

| Symbol      | Parameter                      | MIN | Typ    | MAX | UNIT  | Test conditions                          |
|-------------|--------------------------------|-----|--------|-----|-------|------------------------------------------|
| I F         | DC Forward current             |     |        | 200 | mA    |                                          |
| I Peak      | Peak Forward current           |     |        | 500 | mA    | Tp < 10μsec. ; T=1:100 ; Rtherm < 100K/W |
| V F         | Forward Voltage                | 1,0 |        | 1,5 | V     | IF = 20mA                                |
| λ Peak      | Peak Wavelength                |     | 1440   |     | nm    | IF = 20mA                                |
| Δλ 0,5      | Bandwide of half power         |     | 150    |     | nm    | IF = 20mA                                |
| t r         | Rise time                      |     | 25     |     | ns    |                                          |
| t f         | Fall time                      |     | 25     |     | ns    |                                          |
| Φ E         | Total Power Output             |     | 240    |     | μW    | IF = 100mA                               |
| I E         | Radiant Intensity              |     | 14     |     | mW/sr | IF = 100mA                               |
| 2Φ 0,5      | Full Emission Angle            |     | 6      |     | deg.  | ΦE = 50%                                 |
| A           | Chip size                      |     | 0,1296 |     | mm²   |                                          |
| TK VF       | Temp.Coeff. Of Forward Voltage |     | -1,5   |     | mV/K  |                                          |
| T junction  | LED-Junction Temperature       |     |        | 110 | °C    |                                          |
| T Soldering | Soldering Temperature          |     |        | 240 | °C    | REFLOW SOLDER                            |
| T Operating | Operating Temperature          | -40 |        | 85  | °C    |                                          |
| T Storage   | Storage Temperature            | -40 |        | 85  | °C    |                                          |
| R thJA      | Thermal Resistance             |     | 450    |     | K/W   |                                          |
| P tot       | Total Power Dissipation        |     |        | 300 | mW    |                                          |

**Order informations:**

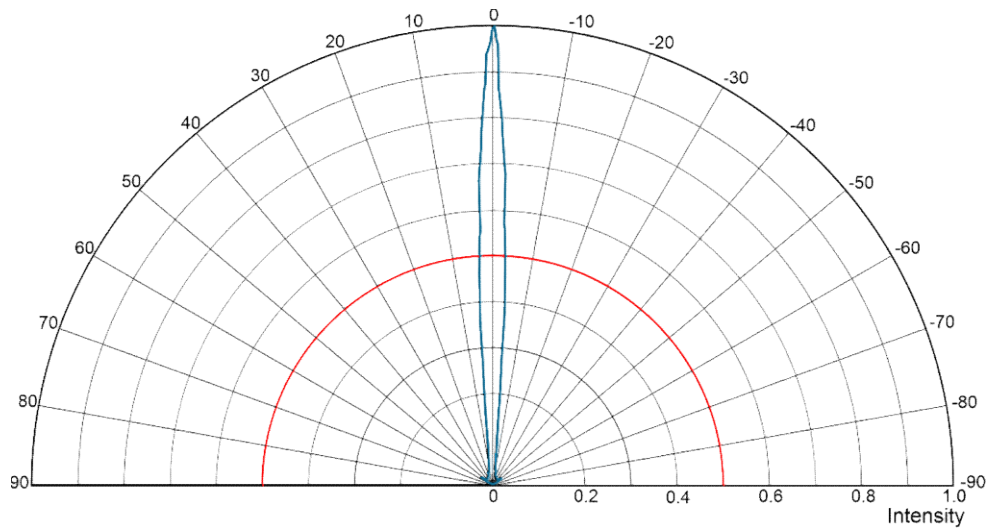
CQR67666EBB

Bulk (1000pcs./Bag) /standard)

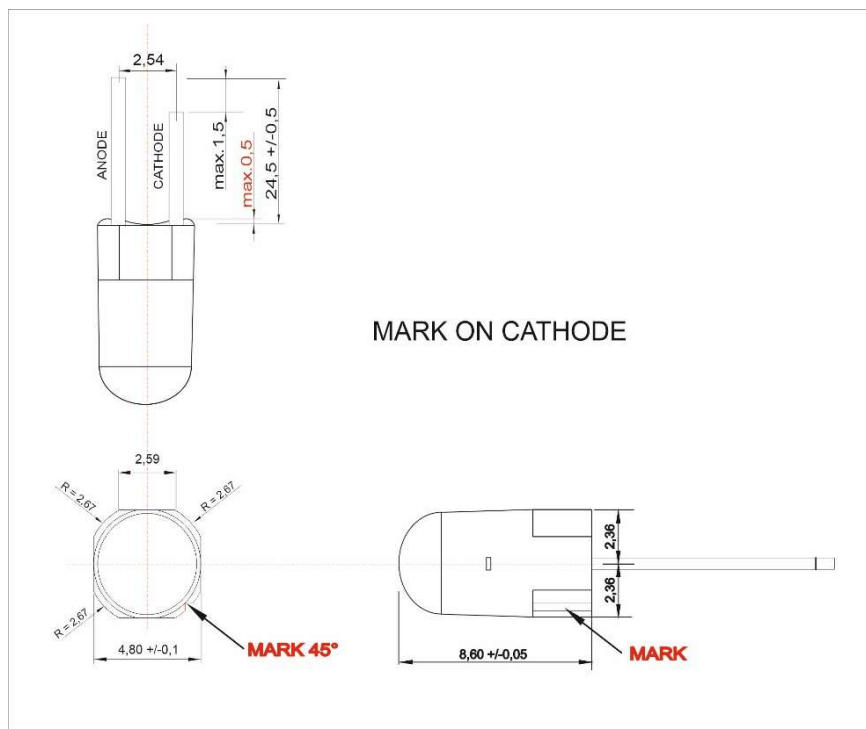
# CQR67666EBB

## Relative Radiation Angle

@20mA @ T<sub>ambient</sub> = 25°C



## Mechanical Drawing



**Pls. Contact us for more technical detail information !**